ATTEN®
INSTRUMENTS

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THE NO.1 INSTRUMENTS BRAND IN CHINA

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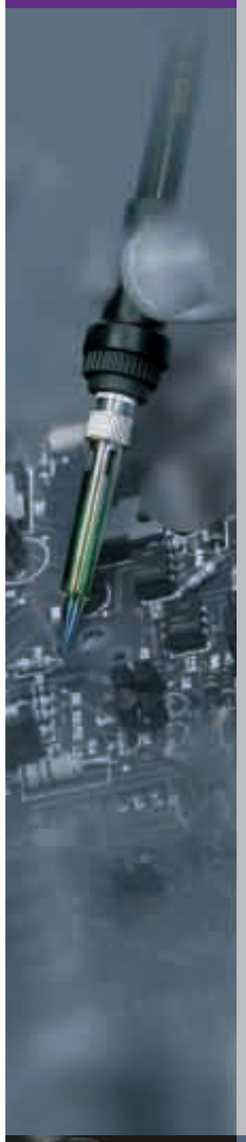

About Company

Atten Electronics Co. Ltd. is the pioneering name in electronics instruments manufacturing in China. Established in 1996 and in a short span of 13 years, Atten had grown into a professional enterprise engages in electronic instruments and communication apparatus and also we are one of the largest electronic company and strongest in technology around china.

Atten is the unique large-scale ISO9001:2000 company who produces spectrum analyzers for industry and commerce in china. Our company has more then 600 skilled workers, with 20000 square meter modern factory area manufacturing high quality products and one group of high-quality personnel to develop and manufacture electronic product.

We have honored with the title of Shenzhen Famous Brand in 2007. Most of our products have been accredited for "CE" \ "E-mark" \ "ROHS". We had ten production line, we can produce more than 30000 outputs every month.

ATTEN GROUP OVERVIEW

ATTEN GROUP Inc's subsidiaries include: Shenzhen Atten Electronics Co. Ltd., ATTEN (HONGKONG) Co., Ltd, Shanghai TANA Electronics Co., Ltd., Shenzhen ATTEN Electronic Instruments & Equipments Branch Company.

SALES NETWORK & SERVICE GUARANTEE

We have sales branches all over the country, in Beijing, Tianjin, Shanghai, and Shijiazhuang. Zhengzhou. Shenyang. Dalian. Hangzhou. Suzhou. Nanjing. Jinan. Xi'an. Urumqi. Chengdu. Chongqing. Kunming. Nanchang. Changsha. Wuhan. Hefei. Fuzhou. Xiamen. Quanzhou. Nanning. Guangzhou. Shenzhen. And Dongguan etc. to provide customer with excellent, efficient and quick technical support and service. And our products are exported to all over the world.

TECHNOLOGICAL STRENGTH

Atten's Research and Design department, have hundreds of Precision Testing Equipment for research. There are three separate research department, respectively RF microwave instrument & trainer experiment research, power supply and advanced solder and decoder equipments. Our shanghai RF microwave instrument research department, have more than 60 advanced RF technical engineer, having vast experience in microwave research and application. We purchase Congo Technical Company in Valley. America in 2006, then our first overseas RF microwave Research and Design department is established.

CORPORATION TENET

From the research to manufacture, from the sales to maintenance, ATTEN Electronic Co., Ltd. manufacture quality products, specialty technical support and fast/perfect service Guarantee. More than one hundred famous corporation and universities, such as Shingling, Huawei, Peking University, Tsinghua University and so on. chose our products, Attenese are always with the corporation purpose of good faith, pragmatic, pioneering and enterprising to continuously improve ourselves. We promise to pass on the maximum profit to customers; we will develop together with the Customers.

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Our headquarter is located in china's special economic zone-SHENZHEN

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Power Supply

Overview

TPR series are high precise regulated DC power supply with constant current and voltage function. It is designed for laboratory, education and factory line. Output voltage can be continuously adjustable from 0 to nominal value. Output load current is same as the voltage that can be adjustable from 0 to nominal value. The coefficient of the stability and ripple of the power is fine.

TVR series is high precise and stability, low temperature drift regulated DC power supply with constant current and voltage function. This series can be used in high-end production line, research laboratory and college education. You can choose this type power supply for its outstanding function and high stability. At the same time, you can combine your computer with USB interface for remote system control and operations.

APS regulated DC power supply is economical and practical. Both voltage and current can be adjustable, and features like limiting current and voltage protection.

AT regulated DC power supply series is designed keeping in mind the specific necessity of the communication industry.

Technical Strength

Shenzhen Atten's Research Department have 17 years rich experience in manufacturing regulated DC&AC power supply and high-quality researching engineer. To meet with different market, we have developed 5 series thousands of different specification models. We can offer regulated power to factory line, laboratory,researching product and communication maintains.

All our products can be designed for OEM and ODM.

Atten regulated DC power supply is an ideal companion for your power requirements.

Whether do you spend much time and energy in designing whole power supply as you research and manufacture electronic production?

Power supply must bear multiple pressures such as high quality standard, tight, heavy task, and high risk and so on. Atten can solve these problems. Therefore, it would be better purchasing power supply than manufacturing it.

Whether can't you start the device even the uncontrolled power supply lead to burn it, when you use power supply?

When we sell power supply to you, we must know the condition you use it, or we do not accept the order. Atten can insure every device is reliable, safe and plus variety overload and overvoltage protection to protect circuit.

Whether do you have some special and individual requirements for your power supply?

We have corresponding plans to solve some problems, like corrosion, salt, shock and wet.

PPS3203T-3S/PPS3205T-3S

The PPS Programmable is a economically prices, hi performance power supply It is a 3-channel, 96 or 158W, programmable linear DC power supply. Inbuilt protection features like OVP, OCP, and OTP protect the power supply and the attached load from unexpected voltage fluctuation and give the power supply high stability.

It has a clear LCD panel with simultaneous output/parameter view for better reading of the output and programming. The versatile PPS -Series is ideal for applications requiring high resolution, multiple output, and automated operation such as in production testing and rack mounting system As power output change, the intelligent fan will control the temperature of the device correspondingly. A buzzer is built to warning when you operate wrongly or error in device. In order to correct precisely, there are fine and carols shuttle knob with 90 settings memories. It also has a One second timer auto step.

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Technical parameter

Note: the following indexes are tested after 20 minutes' warming-up.

Specifications		PPS3203T-3S	PPS3203T-2S	PPS3205T-3S	PPS3205T-2S
Output	Voltage	0~ 32V x 2, 0-6V x1	0~ 32V x 2, 2.5V/ 3.5/ 5Vx1	0~ 32V x 2, 0–6V x 1	0~ 32V x 2, 2.5V/ 3.5/ 5Vx1
	Current	0～3A x 3	0～3A x 2 3A x 1	0～5A x 2 0～3A x 1	0～5A x 2 3A x 1
Load Effect	Voltage	≤3mV(≤8mV rated current>3.0A)			
	Current	≤3mA(≤5mA rated current>3.0A)			
Power Effect	Voltage	≤3mV(AC±5%)			
	Current	≤3mA			
Resolution	Voltage	10mV			
	Current	1mA（2mA rated current>3A）			
Set Accuracy (25±5℃)	Voltage	≤0.05%+10 mV(+20 mV rated voltage>36V)			
	Current	≤0.1%+5ma(+10 mA rated current>3.0A)			
Ripple (20Hz-20MHz)	Voltage	Ripple≤1 mVrms			
	Current	≤3mArms(≤5mArms rated current>3.0A)			
Temperature Coefficient (0～40℃)	Voltage	100ppm+3mV			
	Current	100ppm+3mA			
Read back Resolution	Voltage	10 mV			
	Current	1mA(2mA rated current>3.0A)			
Response Time	Voltage rise	10%~90%≤100ms			
	Current fall	90%~10%≤10ms(≥10% rated load)			
Readback Temperature Coefficient	Voltage	≤100ppm+10 mV			
	Current	≤150ppm+10 mA			
Drift	Voltage	≤100ppm+10 mV			
	Current	≤150ppm+10 mA			
Serial synchronous operation	Serial synchronous error	≤0.1%+20 mV			
	Series(Load)	20 mA			
Parallel Synchronous Operation	Set Accuracy	Voltage≤0.05%+20 mV Current≤0.1%+20 mV			
	Load regulation	Voltage≤5mA Current≤6mA			
	Power regulation	Voltage≤3 mV Current≤6mA			
Memory		Store/Recall points 0~90			
Timer	Setting time	1s～9999s			
	Resolution	1s			
	Function	Auto Step running			
Interface		RS 232(standard configuration), USB interface(optional)			
Mechanical Spec.	Dimensions	230（W）×140（H）×380（L）mm			
	Weights	10Kg			
Operation Environment		Indoor use, Altitude up to 2000 m			

PPS3003S/PPS3005S

Product Features:

- The most economical programmable regulated power supply
- Being able to replace of mature and simulation power supply in the marker completely.
- Better than normal power supply on precision and stability.
- Offering lot of complex texting condition through computer controlling.
- In order to satisfying quickly swift under different environ ment, we can store output ratings.
- Equipped with multiple protections which only the advanced power supply owns.
- High-resolution, 10mV, 1mA.
- High-stability, low-drift.
- OVP, OCP and OTP to protect power supply.
- Standard interface: RS-232
- Optional : USB

Technical Parameter:

MODEL		PPS3003S	PPS3005S
Load Effeit	Voltage	0.01%+ 3mV(I ≤ 3.0A)	0.02%+ 5mV(I > 3.0A)
	Current	0.2%+ 3mA(I ≤ 3.0A)	0.2%+ 5mA(I > 3.0A)
Power Effeit	Voltage	0.01%+ 3mV	
	Current	0.01%+ 3mA	
Resolution	Voltage	10mV	
	Current	1mA(2mA when rate current >3A)	
Set Accuracy (25±5°C)	Voltage	≤ 0.1%+20mV	
	Current	≤ 0.5%+5mA(+10mA when rate voltage >3A)	
Ripple (20Hz~20MHz)	Voltage	ripple ≤ 1mVrms(≤2mVrms>3A)	
	Current	≤ 3mArms(≤ 6mA when rate current > 3.0A)	
Temperature Coefficient (0~40°C)	Voltage	300PPm+3mV	
	Current	300PPm+3mA	
Output Resolution	Voltage	10mV	
	Current	1mA(2mA when rate current >3A)	
Read-back temperature coefficient	Voltage	≤ 300ppm+10mV	
	Current	≤ 300ppm+10mA	
Drift	Voltage	≤ 300ppm+10mV	
	Current	≤ 300ppm+10mA	
Interface	RS 232(standard configuration), USB interface(optional)		

AT Maintenance Power Supply

■ APS1501T / APS1501T+

Overview of APS1501/APS1501T+

They are comprehensive function power supply with voltage adjustable and measurement, automatically restore cost-saving and over-load protection type. They are very suitable for maintain and small power production line testing.

Technical index

Input Voltage: AC220V±10%. 50Hz
Output Voltage Range: 0~15V
Output Current Range: 0~1A
Power: 15W
Display Precision of Voltage: 0.1V
Display Precision of Current: 2.5degree
Ripple and Noise: ≤ 0.5mVrms
Dimension: 227x142x208 mm

APS1501T

APS1501T+

APS1501T+ brings with USB 5V power interface and mA display.

AT Maintenance Power Supply

■ APS1501A+ / APS1502A+
■ APS1501D+ / APS1502D+

APS1501A+

APS1501D+

Overview of APS1501A+ / APS1502A+ APS1501D+ / APS1502D+

APS150* series are characterized with low ripple noise, small and economical. As for voltage adjustable and automatically restoring after current cut-off protection, they are suitable for testing and debugging in factories.

Technical index

Input Voltage: AC220V±10%. 50Hz
Output Voltage Range: 0~15V
Output Current Range: 0~1A/2A
Power: 15W/30W
Stability of load: ≤0.1%+10mV
Ripple and Noise: ≤ 3mVrms
Dimension: 310x207x98 mm

APS Series Power Supply

■ APS3003S / APS3005S
■ APS3003Si / APS3005Si

Overview

They are single-channel, constant-voltage and constant-current power supplies with low ripple and noise, high reliability and high accuracy. Moreover, they have perfect protection circuit of overload, short circuit and overheating, which can meet the needs of development of scientific products and usage in lab, training and electronic production line.

APS3003S

APS3003Si

Technical Specifications:

Output Voltage Range: 0-30V
Output Current Range: 0-3A/0-5A
Power: 90W/150W
Voltage/Current Display: LED Display
Display Accuracy
Voltage: 0.1V
Current: 0.01A (APS300XSi:1mA)
Load Stability: ≤ 0.1%+5mV
Ripple and Noise: ≤ 3mVRMS
Dimension: 260x150x160mm

APS Series Power Supply

■ APS3003S-3D
■ APS3005S-3D

APS3005S-3D

They are double-channel regulated power supplies with low ripple and noise, reliability. Two channel which can automatically switch and track the function of series and parallel, independent from each other with constant voltage and constant current, which increase the ability of load. They can apply in product research, laboratory and electronic production line, and also in communications industrial. Safe for students to use

Dual Channels And Adjustable Regulated DC Power Supply

AC Input Voltage: AC 110V/220V, 60Hz/50Hz
Output Voltage Range: CH1 0~30V, **CH2** 0~30V,**CH3** 5V
Output Current Range: CH1 0~3A/5A, **CH2** 0~3A/5A, **CH3** 3A
Display Precision: ±0.5% + 2 bit
Ripple and Noise: ≤ 3mVRMS
Load Stability: ≤ 0.1%+5mV
Power: 195W / 315W
Display Resolution: Voltage 0.1V ; **Current** 0.01A
Auxiliary Power Voltage: 5 V Fix
Auxiliary Power Current: 3 A
Protecion Method: current-limited lower voltage protection, short-circuit protection, over-temperature protection.
Working Method: constant current and constant voltage
Working Method Cooling Mode: strong wind cooling
Synchronous error: ≤ 0.5% + 10mV(Dual channels)
Series Adjustable rate: ≤ 300mV
Dimension: 405x260x160mm

TPR Series Power Supply

■ TPR3010S
■ TPR3020S

Overview of TPR3010S/TPR3020S

TPR3010S/3020S series are constant voltage and constant current signal-channel power supply, voltage and current continuous adjustable, high-light LES display, multiple protections, safety and reliability. Beautiful appearance and high performance function of these devices makes it especially suitable for the heavy load electronic production line. At the same time, it can be used for research labs, technical laboratories, and education and communication industry.

TPR3010S

Technical index

Input Voltage: AC220V±10%. 50Hz
Output Voltage Range: 0~30V
Output Current Range: 0~10A/20A
Rated Power: 300W/600W
Display precision: 0.1V±2bit 0.01A±2bit
Stability of voltage: ≤0.01%+3mV
Stability of load: ≤0.01%+10mV(≤10A); ≤0.01%+20mV (> 10A)
Ripple and Noise: ≤ 3mVrms
Method of protection: limited current and low voltage /over-temperature protection
Cooling model: fan

TPR Series Power Supply

■ TPR6005S
■ TPR6010S

Overview of TPR6005S/TPR6010S

TPR6005S/TPR6010S are constant voltage and constant current signal-channel power supply, voltage and current continuous adjustable, high-light LES display, multiple protections, safety and reliability. Beautiful appearance and high performance function of these devices makes it especially suitable for the heavy load electronic production line. At the same time, it can be used for research labs, technical laboratories, and education and communication industry.

TPR6010S

Technical index

Input Voltage: AC220V±10%. 50Hz
Output Voltage Range: 0~60V
Output Current Range: 0~5A/10A
Rated Power: 300W/600W
Display precision: 0.1V±2bit 0.01A±2bit
Stability of voltage: ≤ 0.01%+3mV
Stability of load: ≤0.01%+5mV(≤5A);
≤0.01%+10mV (> 5A)

Ripple and Noise: ≤ 3mVrms
Method of protection: limited current and low voltage /over-temperature protection
Cooling model: fan

TPR Series Power Supply

■ TPR3003T
■ TPR3005T

Description of TPR3003T/TPR3005T

This series is single-channel regulated DC power supply with LED panel bring backlight and voltage and current can be adjusted continuously. Knobs are hided in a device shell so that avoid trouble which is done wrongly. It is blend of beautiful and intelligent design for high performance. They can used in product research, laboratory and electronic production line, and also in communications industry

TPR3005T

Technical parameter:

AC Input Voltage: AC 220V ±10%, 50Hz
Rated Output Voltage: 0~30V
Rated Output Current: 0~3A/5A
Rated Output Power: 90W/150W
Voltage Display Precision: 0.1V ± 2bit
Current Display Precision: 0.01A ± 2bit
Voltage Stability: ≤0.01%+2mV
Load Stability: ≤0.01% + 5mV
Ripple: ≤ 1mVrms (5Hz~1 MHz)
Working Method Cooling Mode: wind cooling
Dimension: 275x125x170 mm

TPR Series Power Supply

■ TPR3003T-3C
■ TPR3005T-3C

Description of RPR3003T-3C/TPR3005T-3C

This series is double-channel regulated DC power supply with LED panel bring backlight and voltage and current can be adjusted continuously. Knobs are hided in a device shell so that avoid trouble which is done wrongly. Two channels can automatically track series and parallel function and independent from each other. CH3 is a fixed output with three adjustable files 2.5V, 3.3V and 5V. It is blend of beautiful and intelligent design for high performance. They can used in product research, laboratory and electronic production line, and also in communications industry.

Technical parameter

TPR3005T-3C

AC Input Voltage: AC 220V ±10%, 50Hz
Rated Output Voltage: **CH1** 0~30V, **CH2** 0~30V, **CH3** 2.5V/3.3V/5V
Rated Output Current: **CH1** 0-3A/5A, **CH2** 0~3A/5A, **CH3** 3A
Rated Output Power: 195W/315W
Voltage Display Precision: 0.1V ± 2bit
Current Display Precision: 0.01A ± 2bit
Ripple and Noise: ≤ 1mVrms
Voltage Stability: ≤0.01%+2mV
Load Stability: ≤0.01% + 5mV
Protection Method: current-limited lower voltage protection
Environment parameter: relative damp < 80%,
temperature of operating environment 0~40°C
Cooling Mode: strong wind cooling
Dimension: 370x250x160 mm

TVR Series power supply

■ E3505

E3505

Description of E3505 power supply

This is a single-channel regulated DC power supply with continuously adjustable voltage and current, LED display. It is extremely high stability and low ripple noise, and applies in most electronic circuit including operational amplifier and digital logical circuit. Ideal for electronic enthusiasts, researchers and technology school and universities.

Technical parameter:

AC Input Voltage: AC220V ±10%, 50Hz
Output Voltage Range: 0~35V continuously adjustable
Output Current Range: 0~5A continuously adjustable
Voltage Display Precision: 0.1V
Current Display Precision: 0.01A
Power: 175W
Voltage/current display: LED
State of constant voltage
Stability of voltage: ≤ 0.01% +2mV
Stability of load: ≤ 0.01% +5mV
Ripple and noise: ≤ 1mVrms
State of constant current
Stability of current: ≤ 0.02% + 2mV
Ripple and noise: ≤ 3mArms
Dimension: 258x207x98 mm

PVR Series power supply

■ PVR3003B
■ PVR3005B

Description of PVR3003B / PVR3005B

This is a single-channel regulated DC power supply with continuously adjustable voltage and current, LED display and back light. It applies in most electronic circuit including operational amplifier and digital logical circuit. Ideal companion for electronic enthusiasts, researchers and experts from technology school.

PVR3003B

Technical parameter:

AC Input Voltage: AC220V ±10%, 50Hz
Rated Output Voltage: 0~30V
Rated Output Current: 0~3A/5A
Rated Output Power: 90W/150W
Voltage Display Precision: 0.1V ± 2bit
Current Display Precision: 0.01A ± 2bit
Ripple and Noise: ≤ 3mVrms
Load Stability: ≤0.1% + 10mV
Protection Method: current-limited lower voltage protection
Working method: Constant voltage
Temperature of operating environment: 0~40°C
Cooling Mode: strong wind cooling
Dimension: 243x125x173 mm

KPS Series Power Supply

■ KPS3050DA
■ KPS3030DA

Capability Characteristics

The output voltage and output current are continuously adjustable. The device is stabilized and over voltage pretection, over current protction, short circuit protection and over temperature protection. Ideal for usage in laboratiories, schools and training centers.

KPS3050DA

Specificitions

Input Voltage Range: AC 220V/50Hz
Output Voltage: 0-30V(adjustable)
Output Current: 0-30A(adjustable)
Rated Output Power: 900W
Charging Time: 8 H
Operating Environment temperature: 0-40°C
The display resocution of voltage: 0.1V ± 2bit
The display resocution of current: 0.1A ± 2bit
Work method cooling method: wind cooling
Measurement (LxWxH): 390x250x200mm

KPS Series Power Supply

■ KPS2054

Description of KPS2054

This is an efficiently adjustable and advanced LED display switching power supply, and characterize with big load, reliability and high efficient. The output voltage and output current are continuously adjustable. The technology level of this kind is up the international standards. The device is stabilized and over voltage protection, over current protection, short circuit protection and over temperature protection. It is ideal for usage in laboratories, schools, electronic production line and communication industry.

KPS2054

Specificitions

AC Voltage: AC 110V/230V
Voltage Range: 60Hz/50Hz
The display resocution of voltage: ± 0.1%V ± 2bit(23± 5°C)
The display resocution of current: ± 0.1%A ± 2bit(23± 5°C)
(minimum display: 100A)
Fully-loaded efficiency: ≥ 80%
Ripple wave + noise p-p ≤ 180 mV
(switch frequency 100KHz
Average evolution: ≤ 25mV
Power supply stability: ≤ 20mV
Load stability: ≤ 60mV
Protection method: currnet-limited lower voltage, over temperature,output over voltage, output short circuit protection.
Power: 1080W
Voltage: 0~20V
Crrent: 0~54A
Work method cooling method: wind cooling

KPS Series Power Supply

■ KPS-150 ■ KPS-300
■ KPS-600 ■ KPS-900

KPS-150

Specificitions

Input Voltage : AC 220V±10% 50Hz
Working Temperature: 0°C ~ 40°C
Working Relative Humidity: < 80%

Storage Condition

Temperture: -10°C ~ 80°C
Protection Output over-voltage protechtion over-current short over-temperature. Rated working efficiency (under the condition output DC15V with full load.
Power stability: ≤ 1%
Load Stability: ≤ 1%
Ripple noise: ≤ 1%
Dimension: Standard cabinet
The display resocution of voltage: 0.1V ± 2 blt
The display resocution of crrent: 0.1A ± 3 blt
Work method cooling method: Wind cooling

Item No.	Rated Output Voltage/Current		Voltage/Current Display	Precision	Meas.(H*B*T)	Weight(kg)
KPS-150	Step One	0~15V / 0~10A	Digital display	0.1 ± 2byte	98x482x285	3.75
	Step Two	0~30V / 0~5A	Digital display	0.1 ± 2byte	98x482x285	3.75
	Step Three	0~60V / 0~2.5A	Digital display	0.1 ± 2byte	98x482x285	3.75
KPS-300	Step One	0~15V / 0~20A	Digital display	0.1 ± 2byte	98x482x305	4.50
	Step Two	0~30V / 0~10A	Digital display	0.1 ± 2byte	98x482x305	4.50
	Step Three	0~60V / 0~5A	Digital display	0.1 ± 2byte	98x482x305	4.50
KPS-600	Step One	0~15V / 0~40A	Digital display	0.1 ± 2byte	142x482x285	3.75
	Step Two	0~30V / 0~20A	Digital display	0.1 ± 2byte	142x482x285	3.75
	Step Three	0~60V / 0~10A	Digital display	0.1 ± 2byte	142x482x285	3.75
KPS-900	Step One	0~15V / 0~60A	Digital display	0.1 ± 2byte	142x482x335	8.30
	Step Two	0~30V / 0~30A	Digital display	0.1 ± 2byte	142x482x335	8.30
	Step Three	0~60V / 0~15A	Digital display	0.1 ± 2byte	142x482x335	8.30

Tools Series

Overview

Atten Electronics Co. Ltd. is one of the first companies to manufacture constant temperature soldering station in China. We have many kinds of SMD rework station to satisfy the market demand, these are: lead-free soldering station series, anti-static temp-control constant temp soldering station series, rework station series, hot air gun series and so on.

We focus on

- Constant temp, small temperature error and temperature back quickly of the products.
- The air blowing is rotating and soft to uniform heating to protect components better,
- Soldering and de-soldering the most of the SMD component, such as BAG, SOIC, CHIP, QFP, and PLCC and so on.
- Blowing all kinds of big or small shielding box will not make it discolor quickly.
- Blowing plastic components won't be deformed.
- Blowing PCB will not make it blister.

Function

Closed-loop control circuit offers accurate temperature. High output starting power can be up to 560W in a flash. It is convenient to set and increase temperature. Temperature of the wind-gap is accuracy and stability which is not affected by the volume of output air. There are 8 files to adjust output air and the temperature remains the former settings, which is better to protect IC and PCB. When temperature is up to setting temperature, heating indicator snobs out and heating component stops heating during the closed-loop control circuit is running. However, when temperature is less than settings, heating indicator lights and heating component will go one working to remain setting temperature, long-life the heating component.

After reworking and put off the device, closed-loop circuit will wind and cold the device automatically and the volume of air can be adjustable. Moreover, the cool system closes itself automatically after the temperature is less than 100°C, except 850 and 850DB. All these features can protect heating component, handle, and thunder to prolong their using life.

850D and 850CB have LED display; both thunder temperature and actual temperature can be display. The design of antistatic protects PCB from static and voltage leakage.

The method that you do not need contact solder avoids components displacement and heat shock. Volume of air and temperature are adjustable significant, and our products can solder OFP, SOP and IC. According to soldering or disordering, you can choose correspondingly nozzle. The heating wire and nozzle we adopt match with these of international brand.

SMD advanced soldering station

Function

• Adopt conductive materials, design for antistatic and clean indoor specially (ESD).
• Heating element is made in import high temperature materials with advanced technology, and prolongs the using life of heating element.
• Low DC power supply provides electricity for heating element; insure the function of antistatic, voltage non-leakage and interference.
• Precise temperature (200~480°C)control is stability
• Quick Heating
• Light-weight handle design, suitable for use for a long time.
• Main power supply used by heating element insolate from grid.
• Iron tip adopt air connector and high temperature and antistatic silicone rubber cables connect with temperature control station.
• Unique temperature lock settings, avoid operator cliché temperature.
• Split design, easy to be placed
• There are two kinds of devices, normal and antistatic, meet with different working condition.

Lead-free Basic Knowledge

In recent years, people are taking the contamination of lead to people more and more seriously. And many governments make laws to forbid the usage of lead in the manufacturing of electronics, automobile and airplanes. Therefore, it is very urgent to develop and promote the lead-free soldering materials. The promotion of lead-free soldering materials is connected with every field, including components, PCB, fluxing materials and equipment: that is, lead-free materials and plating are also used for pins of components and internal connection, PCB substrate materials need higher temperature and the plating layer on the pad also needs to adapt to wielding at a high temperature, the color of the fluxing materials should not be changed at a high temperature; and the mechanical materials, transmission and control system in the soldering equipment should also adapt to the usage at a high temperature and so on.

Because of the high melting point of stannum (232°C), if the layer of the pure stannum plated on the copper is exposured for a long time, it may lead to inter-reaction (but mixture can restrain the inter-reaction of stannum). And it will result in the growth of crystal at a higher temperature and damper environment, so the rough soldering craftwork can not be directly used as lead-free soldering materials. Nowadays, the definition of international legalized lead-free soldering materials is: soft-solder alloy which is based on Sn, has added other metal elements, contains less than 0.1% - 0.2% Pb and is mainly used for electronics assembly.

AT938/AT980/AT938D/AT980D

Advanced Soldering Station

NEW

AT938D/AT980D

AT938/AT980

AT938 Seriers Product Characteristics:

- Brand–new appearance, small size, easy for putting, space–saving in particular.
- Light handle, suitable for long–time operation.
- Heater with ATTEN temperature–beard materials, double–wire heating method,long life, and low cost.
- Low–voltage power supply used on the heater, anti–static, no creepage, no interference.
- Unique temperature locking devices to prevent the staff from adjusting the temperature improperly.
- Temperature 200–480℃, stable and accurate.
- Same as the soldering tips of international brand; optional soldering tips according to the different working conditions of users.

ATTEN Heating Element(2 cores,60W)

Imported Heating Element(4 cores,80W)

AT938	AT938D	AT980	AT980D
/	LCD	/	LCD
60W	60W	80W	80W
200~480°C	150~450°C	200~480°C	150~450°C
ATTEN Heating Element (2 cores,60W)	ATTEN Heating Element (2 cores,60W)	Imported Heating Element (4 cores,80W)	Imported Heating Element (4 cores,80W)

AT936b/AT937b

Advanced Soldering Station

AT937b NEW

Characteristics and Advantages

- Split design, small size, easy for putting, space-saving in particular.
- Light handle and suitable for long-time operation
- Heater with imported temperature - beard materials, four-wire heating method, long life, and low cost.
- Low-voltage power supply used on the heater, anti-static, no creepage, no interference
- Unique temperature locking devices to prevent the staff from adjusting the temperature improperly.
- Temperature 200-480°C, stable and accurate
- Same as the soldering tips of international brand; optional soldering tips according to the different working conditions of users.

Technical Specifications

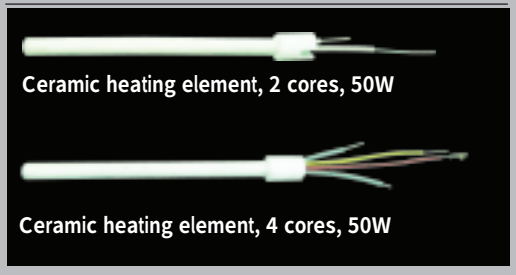
Input Voltage: AC 110V/220V optional
Input Frequency: 50/60Hz
Power Consumption: 50W (max)
Temperature Range: 200 – 480°C
Tip and ground impedance: ＜2 Ohm
Tip and ground potential: ＜5mV
Standard tip: AT-900M

AT936B

The fine-tuning temperature of soldering station is controlled by tools.

Parts list

ATTEN 907 handle		1PC
Soldering holder		1PC
Cleaning sponge		1PC
Heating elements	Two cores(AT936B)	optional
	Four cores(AT936b)	optional



AT213 Advanced Soldering Station

Characteristics and Advantages:

- PID power control loop with constant temperature setted by MCU computer, more precise temperature control
- Heated by high power, fast warming to improve the wielding speed greatly
- Advanced stainless steel heating core ensures long life
- Random exchanges of temperature display between Fahrenheit and Celsius, convenient for the habit of the operator.
- Computerized temperature correction to calibrate the temperature difference between the soldering tip and display temperature.
- Sleep and automatic shutting down to save energy
- Malfunction alert function

AT213D

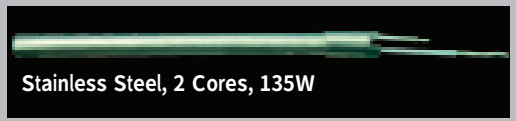
Technical Specifications

Input voltage: 220V AC ±10% 50Hz
Output voltage: 28V AC
Power consumption: 135W (max)
Temperature control range: 100~ 500°C (212°F ~932°F) / AT213A 200 ~480°C
Temperature stability: ±1°C (static working mode)Long-life heating element, high power, and stainless steel heating core
Ground impedance: ＜2Ohm
Ground voltage: ＜2mV
Dimension: W160mmxH106mmxL152mm

ATTEN 907 handle

Parts list

ATTEN 907 handle	1PC
Soldering holder	1PC
Cleaning sponge	1PC
Heating elements **Stainless Steel, 2 Cores, 135W**	optional



SOLDERING STATION

AT969D Advanced Soldering Station

Product characteristics of AT969D

- Stainless steel heating element, temperature probe and soldering tip in close contact. Temperature sensitive, back to the temperature rapidly, extending the life of heating element.
- Split design of heating element and soldering iron, Soldering tip is compatible international brand, cost-saving and easy to replace.
- 27V low-voltage output and stable impedance grounding, to the absolute protection of sensi tive components and the safety of the user.
- Intelligent digital control and precise temperature control for stability.
- LED digital display, the knob adjustment of input data, visual display, fast and easy to use.
- Intelligent temperature card management, to prevent accidental temperature change by operator.
- The digital temperature calibrations, accurate calibration.
- Automatic sleep function to save energy, 20 minutes of non operation, automatically enters sleep function. After 40minutes, automatically cut off power supply. Upon wake up operation, soldering iron to backs up to the preset temperature rapidly.
- Self-fault detection. The LED display screen will show "--", when the heating element is damaged.

Technical Specifications

Input Voltage: 220V ±10% 50Hz
Output voltage: 24V AC
Temperature range: 150~450°C
Temperature lock method: card (969D)
Power consumption: 60W
Leak resistance of soldering tip : < 2 Ohm
Leak voltage of soldering tip: <5mV
Dimension of iron tip: AT-900M

Parts list

ATTEN 969 handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
Card	1 PC
Heating element(stainless steel, 2 cores, 60W)	optional

Stainless steel, 2 cores, 60W

AT969A Advanced Soldering Station

Product characteristics:

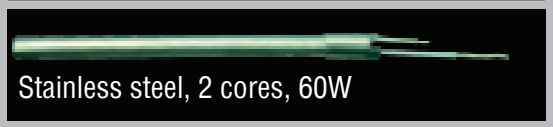
- Stainless steel heating element which compared with the traditional ceramic heating element, extending the life of heating element. Temperature probe and soldering tip in close contact. Temperature sensitive, back to the temperature rapidly.
- Split design of heating element and soldering iron, soldering tip and the same as international brand. Compare with Integration heating element, the use of cost-saving, easy to replace
- 27V low-voltage output and stable impedance grounding, to the absolute protection of sensitive components and to the safety of the user.
- Light-weight handle design, suitable for use for a long time.
- Especially suitable for SMD mount components by hand, rework and the general components of the welding line. As well as various other requirements of the welding process.
- Using mechanical temperature lock.

Technical Specifications:

Input Voltage: 220V ±10% 50Hz
Output voltage: 24V AC
Temperature range: 200~480°C
Temperature lock method: Mechanical
Power consumption: 60W
Leak resistance of soldering tip : < 2 Ohm
Leak voltage of soldering tip: <5mV
Dimension of iron tip: AT-900M

Parts list

ATTEN 969 handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
Heating element(stainless steel, 2 cores, 60W)	optional


Stainless steel, 2 cores, 60W

The fine-tuning temperature of soldering station is controlled by tools.

SOLDERING STATION

AT60D Advanced Soldering Station

MODEL :
AT60D / 60W
AT80D / 80W
AT100D / 100W

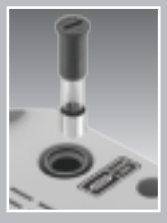
Product characteristics:

- New appearance; light and handy handle, convenient for long-time operation.
- Heater with imported temperature-beard materials; made through advanced technology; long life; and low replacement cost.
- Computerized temperature correction to calibrate the temperature difference between the soldering tip and display temperature.
- Sleep and power-saving function
- Same as the soldering tips of international brand; optional soldering tips according to the different working conditions of users.
- Made of conductive materials; anti-static.

Technical Specifications:

Input Voltage: 220V AC ±10%, 50Hz
Output Voltage: 24 V AC
Power Consumption: 60W/80W/100W
Temperature-controlling Range: 150°C ~ 450°C
Temperature Stability: ±1°C(static working mode)
Ground Impedance: ＜2 Ohm
Ground Voltage: ＜2mV
Dimension: 167mmx160mmx113mm
Model of tip: AT-900M

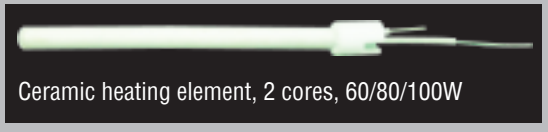
AT508D



Fuse

Parts list

ATTEN 907 handle		1 PC
Iron holder		1 PC
Clean sponge		1 PC
Heating elements	(2 cores, 60W)AT60D	optional
	(2 cores, 80W) AT80D	optional
	(2 cores, 100W)AT100D	optional

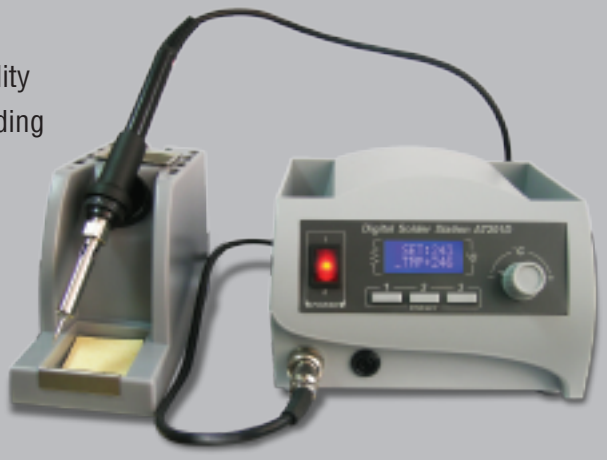


Ceramic heating element, 2 cores, 60/80/100W

AT201D Advanced Soldering Station

Features and advantage:

- Light-weight handle design, suitable for use for a long time.
- Imported heating element made in high quality materials using advanced technology, extending using life and saves cost.
- Split design of heating element, easy to replace.
- 150~450°C setting temperature, LCD display, using three programmable knobs, you can choose every temperature you want to set.
- Soldering tip is compatible to any international brand, according to your working condition, you can choose suitable iron tip.
- Soldering station is made of conductive materials makes it anti static.



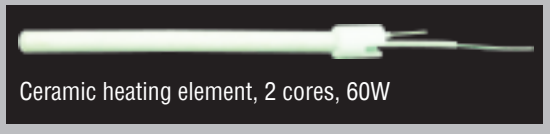
Technical Specifications:

Input Voltage: 220V ±10% 50Hz
Output voltage: 26V AC
Temperature range: 150~450°C
Temperature stability: ±1°C (static working model)
Leak resistance of soldering tip : < 2 Ohm
Leak voltage of soldering tip: <5mV
Dimension of iron tip: AT-900M

AT204D

Parts list

ATTEN 907 handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
Heating element(2 cores, 60W)	optional



Ceramic heating element, 2 cores, 60W

SOLDERING STATION

AT306DH

SMD Advanced high frequency soldering station

Features:

- Use high quality electromagnetic heating element, high-frequency eddy current heating, for rapid warning. From room temperature to 350°C just only 20 seconds. Temperature sensitive, back to the temperature rapidly.
- Split design of heating element and soldering iron, Soldering tip is compatible international brand, cost-saving and easy to replace.
- Precise temperature control, stability, LED display to enhance visual.
- Using secret word temperature lock to protect operator from cliché temperature and to ensure easy management.
- The digital temperature calibration and accurate calibration.
- Automatic sleep function to save energy, upon any wake up the soldering iron backs up to the preset temperature rapidly.
- Self-fault detection, easy to maintain.
- Anti-static design.

Technical Specifications:

Input Voltage: 220V AC ±10%, 50Hz
Output Voltage: 36 V AC / 400KHz
Temperature-controlling Range: 100°C -500°C
Temperature Stability: ±5°C(no wind,no load)
Heateing element: High- frequency eddy current
Ground Impedance: ＜2 Ohm
Ground Voltage: ＜2mV
Dimension: 160mmx106mmx152mm

Parts list

High frequency handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
High frequency heating element	optional

High frequency heating element

HIGH FREQUENCY SOLDERING STATION

AT306H

SMD Advanced high frequency soldering station

Features:

- Use high quality electromagnetic heating element, high-frequency eddy current heating, for rapid warning. From room temperature to 350°C just only 20 seconds. Temperature sensitive, back to the temperature rapidly.
- Split design of heating element and soldering iron, Soldering tip is compatible to any interna tional brand, cost-saving and easy to replace.
- Aluminum alloy shell design, steady-going and stable.
- Using mechanical temperature lock.
- Anti-static design.

Technical Specifications:

Input Voltage: 220V AC ±10%, 50Hz
Output Voltage: 36 V AC / 400KHz
Temperature-controlling Range: 100°C ~500°C
Temperature Stability: ±5°C(no wind,no load)
Heateing element: High- frequency eddy current
Ground Impedance: ＜2 Ohm
Ground Voltage: ＜2mV
Dimension: 160mmx106mmx152mm

The fine-tuning temperature of soldering station is controlled by tools.

Parts list

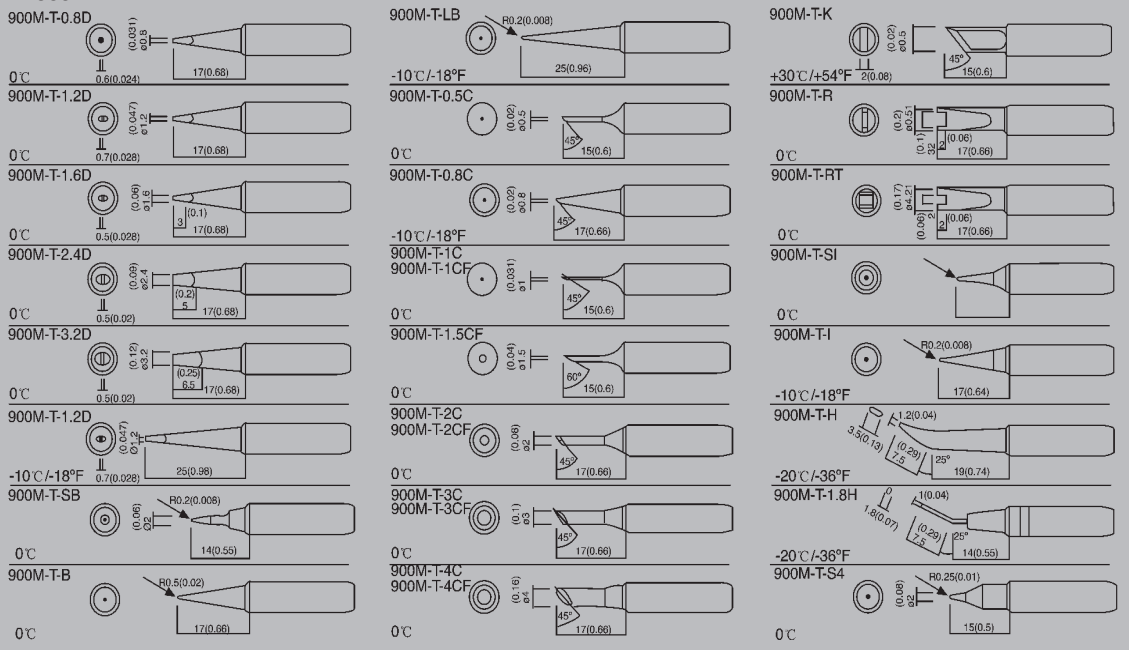
High frequency handles	1 PC
Iron holder	1 PC
Clean sponge	1 PC
High frequency heating element	optional

High frequency heating element

HIGH FREQUENCY SOLDERING STATION

Interchangeable Soldering Tips of Soldering Station (AT-900M)

AT-900M



☐ 900M tip OutDiam ϕ6.5mm

SOLDERING TIPS
AT-900M

THE NO.1 INSTRUMENTS BRAND IN CHINA

ATTEN® INSTRUMENTS

AT8502D 2 in 1 Intelligent Lead-free Rework Station

AT8502D is an intelligent lead-free rework station, which combines rework station and soldering station. It is especially suitable for R&D, production, lab of scientific research and so on. Furthermore, it is easy to operate, user-friendly and greatly space-saving.

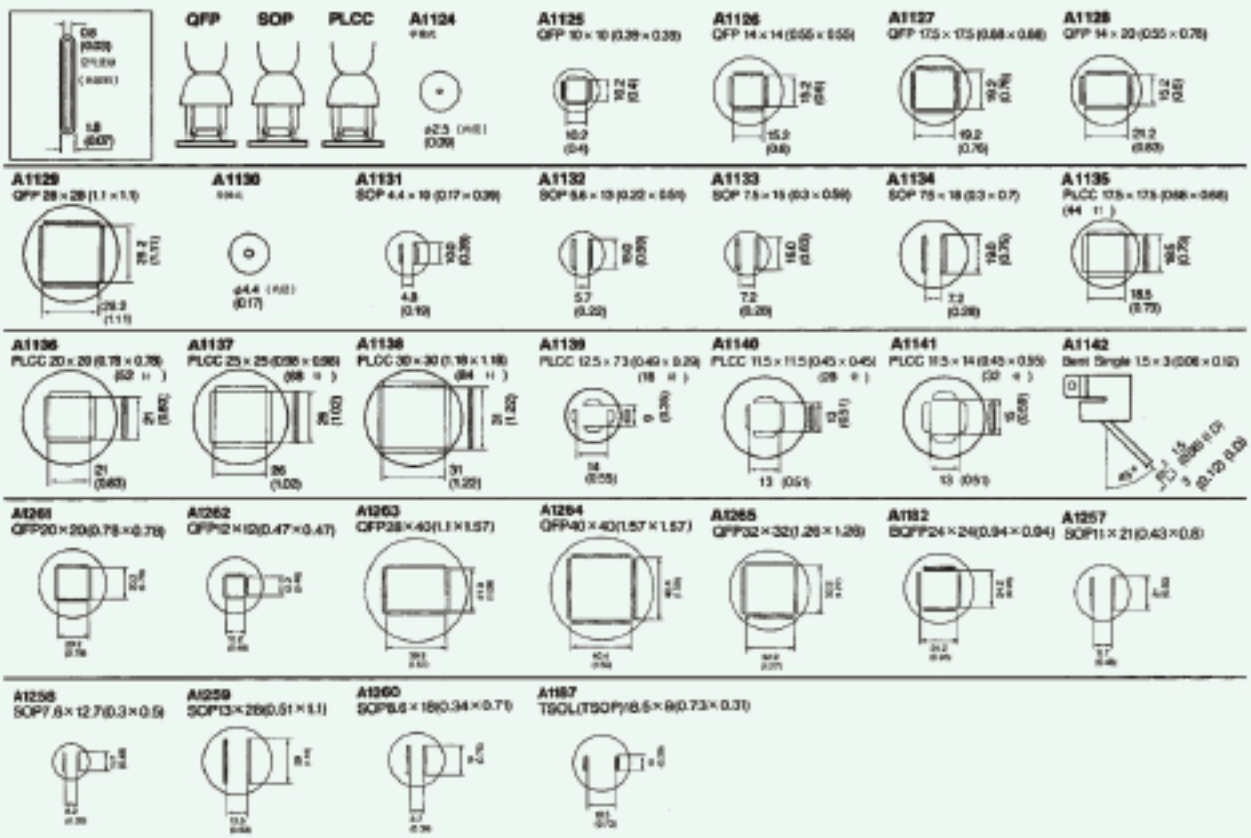
Product Characteristics:

- MCU computer thermostat provides high-level algorithm for industrial PID temperature control; more precise temperature control
- Dual - screen LCD separately displays the current working state and parameters, which is very intuitive. The customer can see the output condition of the equipment very clearly.
- High output power, rapid warming
- Pressure diaphragm pump with large flux, which is suitable for all kinds of nozzles in the desoldering SMD components.
- There are energy-saving functions, such as sleeping, automatic shutdown and so on.
- First shortcut keys of the handle facilitate the adjustment of temperature and air volume.
- Three groups of separate memory storage; rapid conversion of different working modes of combining temperature and air volume.
- Temperature compensation on all the units, which can make sure of the stability of working condition during operation.
- Malfunction alert function

Technical Specifications

Model	AT8502D	Combined Intelligent Lead-free Rework Station
Total Power	About 900W (max)	Heating 800W(max) Pump(diaphragm) 40W Soldering iron 50W
Temperature-controlling range	Hot Air Rework Station	100–500℃
	Soldering Iron	200–480℃
Temperature unit	℃/℉	Changeable
Temperature-controlling Accuracy	Static	±10℃
Calibration Range	Celsius	50℃ — –50℃
	Fahrenheit	–58℉ — +122℉
Setting Storage (three groups)	Rework Station (in the factory)	1：200℃，40；2：300℃，60；3：400℃，80
	Soldering Iron (in the factory)	1：200℃；2：300℃；3：400℃
Range of Air Volume	Rework Station	020–100 level
Dormancy and Standby	Rework Station	Stopping heating, air-blowing delay and then be in the condition of dormancy and standby
Cold Air	Rework Station	Air-blowing made by the machine and stopping heating
Malfunction alert function	Heating core	Displaying H-E
	Sensor	Displaying S-E
Shutdown	Shutdown in the normal condition	Cold air delay shutdown, power off

Specifications and size of the nozzles (denoting dimensions of the flat IC)



AT860D Intelligent reworking station

- Use 800W high power heating element High flux pump and power efficient.
- Dual windows digital shows wing flux ratings, key operation, the elegant appearance.
- Streamlined handle design, control keys on the hand handle for more flexible and easy use.

Features and advantage:

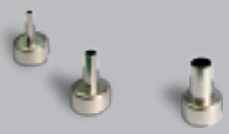
- Double window LED display of the temperature, wing flux and parameter setup
- Display temperature value may be familiar with according to the user in Degree Celsius and in Fahrenheit.
- Have advanced functions like digital temperature calibrations and accurate calibration.
- Control keys are integrated to the handle also makes it more flexible while using.
- Card-type device management in order to avoid accidental change of temperature by the operator.
- Automatic dormancy function to ensure that equipment reduce energy consumption, extend the life of heating element
- Automatic power off feature to protect the equipment cooling.
- Malfunction alert function, when the device have some fault, it will decrease the temperature and goes in auto shutoff mode.
- The air outlet uses the brand-new tornado type design which maintains the stable hot-air temperature and an even airflow output
- The brand-new streamline form handle design, for more convenient & comfortable feel

Specifications:

Input Voltage	220V 50Hz / 110V /60Hz	Customer specified
Total power	800W(max)	Heating
Temperature range	150~500°C/ 302~932°F	Display Range 3-bit LED Digital Tube
Temperature Accuracy	±10°C	Static
Calibration Temperature	±50°C(-58°F ~ +122°F)	Display of LED 3-Digital Tube;
		The sign bit is showed on the 100-bit.
Setting Storage	Three Groups	Shortcut Storage with 1, 2, 3 levels
Air Volume Range	020 – 099 levels	Display of LED 3-Digital Tube
Sleep waiting	100°C(212°F)	Temperature less than 100°C(Left Screen “SLP”)
Warning	H-E display	Heating element may damage
	S-E display	Sensor or relative components may damage.
Shutdown	Normal shutdown	Temperature < 100°C, whole device power off.

AT8586 Multifunctional Integrated Desoldering Maintenance System 2 in 1

- Multifunctional Integrated Desoldering Maintenance System Combined by Rework Station and Soldering Station
- The core of the whole machine controlled by the single and microwave chip to make sure of temperature accuracy and stability of rework station and soldering station; not simply combined by the two equipments
- Clear digital display of the current working temperature and conditions
- Temperatures of rework station and soldering station continuously adjusted by digital buttons to meet the needs in differ ent workplaces.
- The two stations can work separately
- Intuitive fault indication function



Rework Station:
Working Voltage: AC220V ± 10% 50Hz
Output Power: 700W
Temperature Range: 100℃~500℃
Temperature Stability: ±5℃
Air Flow: 120L/min (max)

Soldering Station:
Working Voltage: AC 26V 50Hz
Output Power: 50W
Temperature Range: 200℃-480℃
Temperature Stability: ±2℃(static)
Ground Impedance: ＜2 Ohm
Ground Voltage: ＜3mV

AT858D+ Hot Air Rework Station

- Sensor closed-loop circuit, zero-crossing triggering microcomputer temperature control, LED display, big power and heating quickly. The accuracy and stability of temperature is not affected by volume of out-air.
- Volume of air is adjustable, big and soft. It is convenient to adjust temperature and fit in varies working method.
- Automatic cool system extends using life of heating element.
- It is smart, durable and beautiful.
- Adopting original import brushless fan, long using life and low noise; high qualified heating element increases the performance twice from the conventional heating element at same power, extending using life of heating element and saves power

Specifications:

Category: LED display
Power consumption: 400W
Air Pump: membrane type
Volume of air: 120L/min (max)
Temperature range: 100~450°C
Length of handle: 120cm
Noise :< 45Db

■ **Nozzle is designed for this device, please choose our accessories**

AT850D Hot Air Rework Station

Characteristics and Advantages:

- Closed loop control of sensor, accurate and stable temperature, which can safely desolder the temperature-sensitive components, such as QFP, PLCC, SOP, BGA and so on.
- Intelligent cooling system, Delay blast after operation, automatic power off when air temperature is less than 100°C.
- Original imported heating element, rapid warming, and long life, and good wielding safety performance, constant and adjustable temperature.
- Original imported air pump, low vibration, noise design, which can make the workplace quiet.
- Anti-static design to avoid bringing damage to PCB board due to static and creepage.

Technical Specifications:

Input Voltage: 110/220VAC optional
Power consumption: 280W
Air pump: Diaphragm
Volume: 23L/min(max)
Temperature: 100 ~ 480°C
Dimension: 224(L)*126(W)*110(H) mm
Weight: 4. 5kg

AT8205 Hot Air Rework Station

Features and advantages:

- Precise temperature control for stability, easy to operate.
- Quick heating, 2 to 3 seconds upon setting the desired temperature.
- Adopting soft and rotating, uniform heating to protect component better.
- Blowing plastic components won't be deformed. Blowing shielding box will not make it discolor.
- It is convenient and quick.
- Perfect waiting function
- Antistatic design, to protect PCB from static and voltage leakage.

AT8305 LED digital control

Specifications:

Input voltage: 110/220V optional
Power consumption: 1200W
Air Pump: membrane type
Air Output: 400L/min (The max.)
Digital temperature: 100~550 °C
Dimension: 206(L) 187(W) 135(H)mm
Weight: 3.5Kg

Specifications:

Input voltage: 110/220V optional
Power consumption: 1200W
Air Pump: membrane type
Air Output: 400L/min (The max.)
temperature: 50~450 °C
Dimension: 206(L) 187(W) 135(H)mm
Weight: 3.2Kg

AT850A+ Hot Air Rework Station

Features and advantages:

- Closed loop control of sensor, accurate and stable temperature, which can safely desolder the temperature-sensitive components, such as QFP, PLCC, SOP, BGA and so on.
- Intelligent cooling system, Delay blast after operation, automatic power off when air temperature is less than 100°C.
- Original imported heating element, rapid warming, and long life, and good wielding safety performance, constant and adjustable temperature.
- Original imported air pump, low vibration, noise design, which can make the workplace quiet.
- Anti-static design to avoid bringing damage to PCB board due to static and creepage.

Technical Specifications:

Input Voltage: 110/220V AC optional
Power consumption: 280W
Air pump: Diaphragm
Volume: 23L/min(max)
Temperature: 100 ~ 480°C
Dimension: 245(L)x187(W)x135(H) mm
Weight: 4. 5kg

AT850DB Hot Air Rework Station

Features and advantages:

- Sensor closed-loop circuit control, quick heating, easy to set temperature which remains constant throughtout
- Antistatic design, to protect PCB from static and voltage leakage.
- Adopting original import heating element, extending using life of heating element
- Adopting original import pump, low-shock, and low-noising and keeping quiet the working environment.
- Intelligent cool system going-on send wind after power off, and cut off power when temperature is less than 100°C
- Suit for de-soldering the most of the SMD component, such as SOIC, CHIP, QFP, PLCC, BGA and so on.

Specifications:

Input voltage: 110/220V AC optional
Power consumption: 280W
Air Pump: membrane type
Air Output: 23L/min (The max.)
Digital temperature: 100~480°C
Dimension: 245(L)x187(W)x135(H) mm

AT8502 Hot air rework station & sodering station 2 in 1

Characteristics and Advantages:

- AT8502 is a combo maintains system, suitable varies soldering need, using solder and rework respectively.
- Antistatic design, to protect PCB from static and voltage leakage.
- Sensor closed-loop circuit, instant heating, stable and accurate temperature, de-soldering completely temperature-sensitive components such as SOIC, CHIP , QFP , PLCC, BAG and so on
- Intelligent cool system going-on send wind after power off, and cut off power when temperature is less than 100°C
- Adopting original import heating element, extending the usage life of heating element
- Adopting original import pump, low-shock, and low-noising and it keeps the working environ ment quiet.

Technical Specifications:

Input Voltage: 110/220V AC optional
Power consumption: 280W
Air pump: Diaphragm
Volume: 23L/min(max)
Temperature range of the nozzle: 100~480°C
Temperature range of the iron tip: 200~480°C
The standard iron tip: AT -900M
Dimension: 247(L)x187(W)x151(H) mm
Weight: 5.7kg

AT850B Hot Air rework station

Features and advantages:

- Closed loop control of sensor, accurate and stable temperature, which can safely desolder the temperature-sensitive components, such as QFP, PLCC, SOP, BGA and so on.
- Intelligent cooling system, Delay blast after operation, automatic power off when air temperature is less than 100°C.
- Original imported heating element, rapid warming, and long life, and good wielding safety performance, constant and adjustable temperature.
- Original imported air pump, low vibration, noise design, which can make the workplace quiet.
- Anti-static design to avoid bringing damage to PCB board due to static and creepage.

Technical Specifications:

Input Voltage: 110/220V AC optional
Power consumption: 280W
Air pump: Diaphragm
Volume: 23L/min(max)
Temperature: 100 ~ 480°C
Dimension: 224(L)x126(W)x110(H) mm
Weight: 3.2kg

SMD
REWORK STATION

AT852D Hot Air rework station

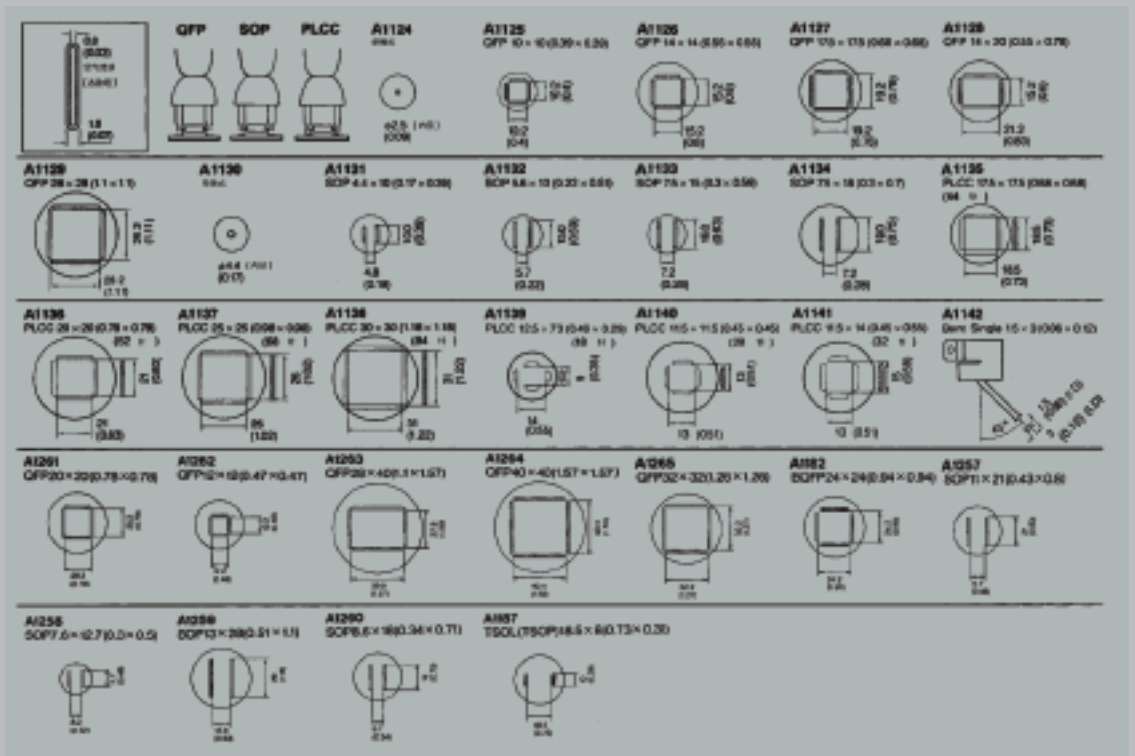
Features and advantages:

- Sensor closed-loop circuit control, quick heating, easy to set temperature which remains constant.
- Antistatic design, to protect PCB from static and voltage leakage.
- Adopting original import heating element, extending using life of heating element
- Adopting original import pump, low-shock, and low-noising, it keeps the working environment quiet.
- Intelligent cool system send wind after power off, and cut off power when temperature is less than 100°C
- Suit for de-soldering the most of the SMD component, such as SOIC, CHIP, QFP, PLCC, BGA and so on.

Technical Specifications:

Input Voltage: 110/220VAC optional
Power consumption: 280W
Air pump: membrane type
Volume: 23L/min(max)
Temperature: 100 ~ 480°C
Dimension: 224(L)x126(W)x110(H) mm
Weight: 3.2Kg

Specifications and the size of the nozzles *(denote dimensions of flat IC)*



SMD
REWORK STATION

AT853A Hot Air and Preheating Rework Station

It applies to PCB board preheating, heating and the demolition and welding of electronic, electrical appliances, communications, maintenance, etc.

Characteristics and Advantages:

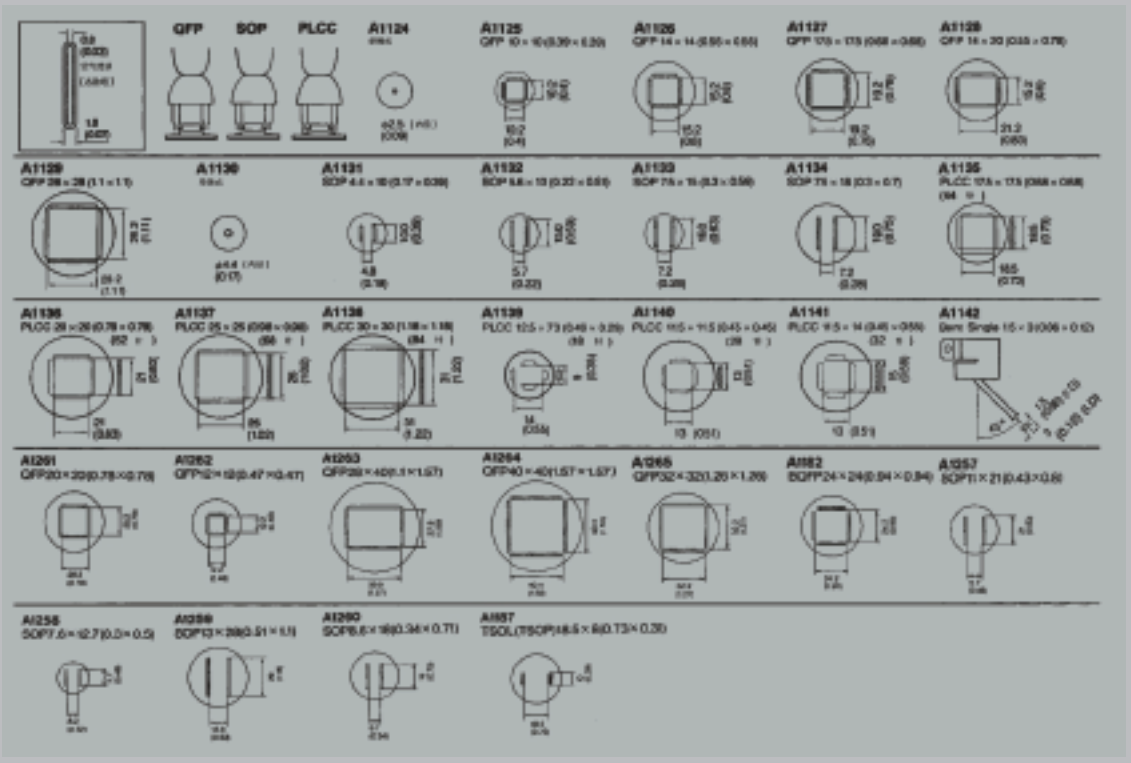
- Quick Heating, up to 350°C only in 10 seconds.
- Temperature sensor keeps the output temperature stable.
- Optional cool flow can preheat and cool chip.
- Working with AT reworking station to deal with BGA and chip IC.
- Smart and Compact design and appearance, easy to carry.
- Automatic temperature control, Can work continuously working for long hours, not affecting the function of the device and the temperature of panel won't exceed the standard temperature.

Specifications

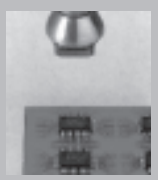
Input voltage	2200V, ±10%, 50Hz ~60Hz
Temperature range	100 ~ 350°C
Air output range	0.18m³/min
Output power	540W
Dimension	170mm x 140mm x55mm
Weight	1.1Kg (not including power line)

SERIES PARTIES LIST

Specifications and the size of the nozzles *(denote dimensions of flat IC)*



Replaceable nozzles (mm)

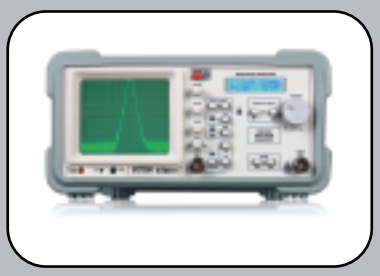


Series parties list

PCB-1	PCB-2
Membrane type Air Pump	Batten's air pump
5 cores line	Silicone tube
AT850 handle cover	AT850 handle under cover
Power line	LED display
8205 whole handle set	AT850 transformers
4 cores heating element	AT850 whole handle set
With a sheath 2-core heating element	

Spectrum Analyzers

AT6060D/AT6030D series



AT6011/AT6010 series

AT5011*/AT5010 series

Digital Oscilloscope

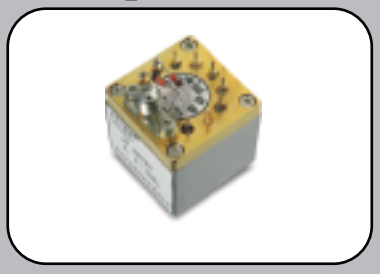
ADS1000 digital oscilloscope series

ADS2000 digital oscilloscope series

ADS7000 digital oscilloscope series

RF Microwave Components

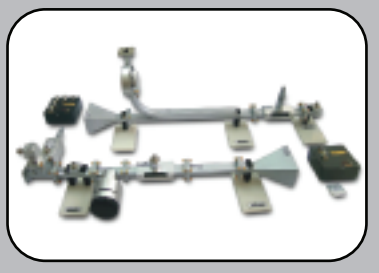
ATPS programmable Attenuator



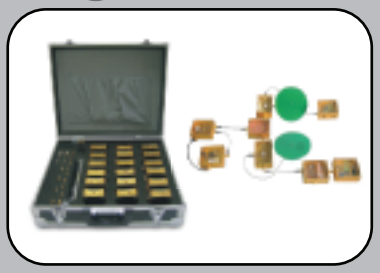
YTO DEH Oscillator

High-power coaxial attenuator rotation

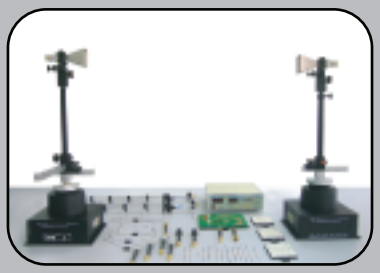
Education Training Kits



AT3000 Waveguide Training System



RF3020/RF3030 RF Training System Kit



AT3200 Antenna Training System

ATTEN
Instruments

NOTES